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Purifying single-stranded targetted nucleic acid - using non-porous non-magnetic particle with complementary nucleic acid attached

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CA 2011818 A 19900917 199049

JP 3041087 A 19910221 JP 9064459 A 19900316 199114

KR 9207664 B1 19920914 KR 903590 A 19900317 199409

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Abstract (Basic): EP 388171 A

Method for purifying at least one single-stranded, targeted nucleic acid comprises (a) contacting the specimen with a purification reagent comprising a particle having directly attached a nucleic acid fragment complementary to a nucleic acid sequence of the targeted nucleic acid under conditions suitable to form an insoluble hybrid; and (b) sepg. the hybrid from the remainder of the specimen. The purification reagent comprises a nonporous, nonmagnetic particle.

USE/ADVANTAGE - The nucleic acid targets can be rapidly and simply purified. The purified nucleic acids may then be amplified by e.g. polymerase chain reaction of e.g. HIV-I DNA, human leukocyte antigen (HLA) DNA or human beta-globin DNA, for diagnosis. The purified nucleic acids could also be used to improve the efficiency of cloning DNA or mRNA or for obtaining large amts. of the desired acid from a mixt. of nucleic acids resulting from chemical synthesis. (10pp Dwg.No.0/0)d c

Abstract (Equivalent): EP 388171 B

A method for amplifying at least one single-stranded, targetted nucleic acid in a biological specimen suspected of containing a mixture of nucleic acids using a polymerase chain reaction comprising: A. contacting the specimen with a purification reagent comprising a nonporous, nonmagnetic particle having directly attached thereto a nucleic acid fragment complementary to a nucleic acid sequence of the targetted nucleic acid, under conditions suitable to form an insoluble hybrid, B. separating the hybrid from the remainder of the specimen, and C. amplifying the nucleic acid sequence of interest using a polymerase chain reaction with or without denaturation from the insoluble hybrid.

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Title Terms: PURIFICATION; SINGLE; STRAND; TARGET; NUCLEIC; ACID; NON; POROUS; NON; MAGNETIC; PARTICLE; COMPLEMENTARY; NUCLEIC; ACID; ATTACH

Derwent Class: B04; D16

International Patent Class (Main): C12N-015/00; C12N-015/09; C12Q-001/68

International Patent Class (Additional): C12Q-001/68

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D05-H09; D05-H12

Chemical Fragment Codes (M1):

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